

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1 - 17. (Cancelled)

18. (Currently Amended) A pressure activated valve comprising:

a valve housing defining a lumen for receiving bodily fluids therein;

a flexible member disposed in the valve housing, the flexible member comprising a plurality of peripheral flexible membranes stacked on opposing sides of a central flexible membrane ~~one another~~, each of the flexible membranes including at least one slit extending therethrough so that each flexible membrane may be moved between an open and a closed configuration based on fluid pressure within the lumen, wherein when all of the flexible membranes are moved to an open position, the flexible member is open to permit fluid flow through the housing; and

a nonthrombogenic coating formed on fluid contacting surfaces of the flexible member, ~~wherein the nonthrombogenic coating includes hydrogel.~~

wherein each of said peripheral flexible membranes includes a beveled surface.

19. (Cancelled)

20. (Previously Presented) The valve according to claim 18, wherein the nonthrombogenic coating includes a material which comprises at least one of heparin and phosphorylcholine.

21. (Original) The valve according to claim 18, wherein one of a proximally outward and a distally outward face of the flexible membrane includes a fluid directing recess formed therein to direct fluid flow toward the slits of the flexible membranes.

22. (Previously Presented) The valve according to claim 18, wherein the ~~first~~ nonthrombogenic coating is a flexible polymeric coating.

23. (Currently Amended) The valve according to claim 18, wherein the ~~first~~ nonthrombogenic coating includes a material which prevents the formation of blood clots.
24. (Currently Amended) The valve according to claim 18, wherein the ~~first~~ nonthrombogenic coating is a coating comprising at least one of heparin and phosphorylcholine.
25. (Previously Presented) The valve according to claim 18, wherein said flexible membranes are formed of silicone.
26. (Previously Presented) The valve according to claim 18, further comprising a second nonthrombogenic coating on bodily-fluid-contacting surfaces of the lumen.
27. (Previously Presented) The valve according to claim 18, wherein at least one of said at least one slits is linear.
28. (Previously Presented) The valve according to claim 18, wherein at least one of said at least one slits is curved.
29. (New) The valve according to claim 18, wherein each of said flexible membranes is characterized by a minimum thickness, the minimum thickness of said peripheral flexible membranes being less than the minimum thickness of said central flexible membrane.
30. (New) A pressure activated valve, comprising:
 - a housing including an inner wall defining a lumen through said housing; and
 - a flexible member disposed within the lumen, said member having one or more slits therethrough, the slits opening to permit the passage of fluid in response to a pressure differential across said flexible member in excess of a predetermined threshold; and

first and second non-thrombogenic coatings, the first non-thrombogenic coating applied to said inner walls, the second non-thrombogenic coating applied to said flexible member.

31. (New) The valve according to claim 30, wherein the flexible member is comprised of a plurality of peripheral flexible membranes stacked on opposite sides of a central flexible membrane, each of said flexible membranes having one or more slits therethrough, each of said peripheral flexible membranes having a beveled surface adapted to direct fluid towards said one or more slits.
32. (New) The valve according to claim 31, wherein each of said flexible membranes is characterized by a minimum thickness, and wherein the minimum thickness of said peripheral membranes is less than the minimum thickness of said central membrane.
33. (New) The valve according to claim 30, wherein at least one of said one or more slits is linear.
34. (New) The valve according to claim 30, wherein at least one of said one or more slits is curved.